

## HIGH CURRENT SURFACE-MOUNT CERAMIC WIRE-WOUND INDUCTORS

# FALQH1210C SERIES

### FEATURES:

Ceramic Core  
High Frequency Design  
Lower DCR permits High Idc  
Available in E12 series  
Excellent Q SRF Values  
Lead free versions  
RoHS compliant  
Excellent Thermal Stability

### OPTIONS:

Tape & Reel is Standard  
(Qty:2000pcs.)  
Bulk packaging Available  
for Smaller Quantities  
Tolerance:K=10%,M=20% is  
Standard, Tighter Tolerances Available

### COMMON APPLICATIONS:

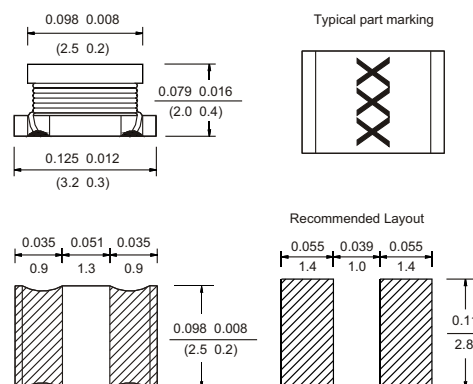
Modems PDP, LCD TVs convertor  
Mobile Radios DC/DC convertor  
Cordless Telephones Car radios  
Global Positioning Systems  
Wireless Communications Equipment  
Networking System,xDSL Filter  
Computer Products and Peripherals

## STANDARD SPECIFICATION

| Part Number<br>(FALQH 1210 Series) | L<br>( H) | L Test<br>Freq<br>(KHz) | Q<br>(Min) | Q Test<br>Freq<br>(MHz) | SRF<br>(MHz) | DCR<br>( Max) | IDC<br>(mA Max) |
|------------------------------------|-----------|-------------------------|------------|-------------------------|--------------|---------------|-----------------|
| FALQH-1210C-1R0M                   | 1.0       | 1                       | 10         | 1                       | 96           | 0.117         | 800             |
| FALQH-1210C-2R2M                   | 2.2       | 1                       | 10         | 1                       | 64           | 0.169         | 600             |
| FALQH-1210C-4R7M                   | 4.7       | 1                       | 10         | 1                       | 43           | 0.260         | 450             |
| FALQH-1210C-100K                   | 10        | 1                       | 20         | 1                       | 26           | 0.572         | 300             |
| FALQH-1210C-220K                   | 22        | 1                       | 20         | 1                       | 19           | 0.923         | 250             |
| FALQH-1210C-470K                   | 47        | 1                       | 20         | 1                       | 15           | 1.69          | 170             |
| FALQH-1210C-101K                   | 100       | 1                       | 30         | 0.796                   | 10           | 4.55          | 100             |
| FALQH-1210C-221K                   | 220       | 1                       | 30         | 0.796                   | 6.8          | 10.9          | 70              |
| FALQH-1210C-331K                   | 330       | 1                       | 30         | 0.796                   | 5.6          | 13.0          | 60              |
| FALQH-1210C-391K                   | 390       | 1                       | 30         | 0.796                   | 5.0          | 22.1          | 60              |
| FALQH-1210C-471K                   | 470       | 1                       | 30         | 0.796                   | 5.0          | 24.7          | 60              |
| FALQH-1210C-561K                   | 560       | 0.001                   | 30         | 0.796                   | 5.0          | 28.6          | 60              |

Note:1. K= 10%,M= 20%

## PHYSICAL CHARACTERISTICS



DIMENSIONS:  $\frac{\text{INCHES}}{\text{mm}}$

## ELECTRONICAL SCHEMATIC



## TECHNICAL INFORMATION

Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent  
RDC:QuadTech 1880 Milliohm meter  
Q- HP4342A  
SRF-HP4191A  
Rated Current L value drop 10% typ. at IDC against its initial value  
Temperature rise 40 Max Reference ambient temperature  
Solderability: 75% of the terminal electrode shall be covered  
Soldering Methods: Wave,Reflow  
Operating Temperature:-25 to +85  
Storage Temperature: -55 to +125

Note: All specifications subject to change without notice.

FALQH1210C-100M

Model \_\_\_\_\_

Value/Tolerance:from table \_\_\_\_\_

Termination \_\_\_\_\_

L=Ag/Ni/Sn  
Blank=Ag/Ni/Sn/Pb